

Appl. No. 10/687,259
Response to 1st Office Action dated 06/19/2006
Reply to Office Action of 03/17/2006

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listing of claims, in the Application.

Listing of claims:

1. (Original) A method of adaptively reconfiguring a pool of buffers, the buffers having a current size, the method comprising the steps of:

receiving data of a particular size to be stored in one of the buffers;

counting each time data of the particular size is received to be stored in one of the buffers;

determining whether the particular size of the data is greater than the current size of the buffers; and

reconfiguring the current size of the buffers to the particular size of the data if the particular size of the data is greater than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is greater than a first threshold.

2. (Original) The method of Claim 1 wherein the reconfiguring step includes the step of determining whether more memory space may be allocated before reconfiguring the buffers to the particular size of the data.
3. (Original) The method of Claim 2 wherein the data being received is being read from or written to a storage device by an application program and if more memory space may not be allocated, a signal is sent to the

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application program to reduce the size of the data being read from or written to the storage device.

4. (Original) The method of Claim 1 wherein the current size of the buffers is reconfigured to the particular size of the data if the particular size of the data is smaller than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is smaller than a second threshold.
5. (Original) The method of Claim 4 wherein before the buffers are reconfigured to the particular size of the data it is determined whether memory space is needed for other purposes.
6. (Original) The method of Claim 5 wherein the data being received is being read from or written to a storage device by an application program and if memory space is not needed, a signal is sent to the application program to increase the size of the data being read from or written to the storage device.
7. (Original) The method of Claim 6 wherein the first and second thresholds are reconfigured based on system requirements.
8. (Original) The method of Claim 7 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is smaller than the second threshold.
9. (Original) The method of Claim 1 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is greater than the first threshold.

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10. (Original) A computer program product on a computer readable medium for adaptively reconfiguring a pool of buffers, the buffers having a current size, the computer program product comprising:

code means for receiving data of a particular size to be stored in one of the buffers;

code means for counting each time data of the particular size is received to be stored in one of the buffers;

code means for determining whether the particular size of the data is greater than the current size of the buffers; and

code means for reconfiguring the current size of the buffers to the particular size of the data if the particular size of the data is greater than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is greater than a first threshold.

11. (Original) The computer program product of Claim 10 wherein the reconfiguring code means includes code means for determining whether more memory space may be allocated before reconfiguring the buffers to the particular size of the data.
12. (Original) The computer program product of Claim 11 wherein the data being received is being read from or written to a storage device by an application program and if more memory space may not be allocated, a signal is sent to the application program to reduce the size of the data being read from or written to the storage device.

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13. (Original) The computer program product of Claim 10 wherein the current size of the buffers is reconfigured to the particular size of the data if the particular size of the data is smaller than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is smaller than a second threshold.
14. (Original) The computer program product of Claim 13 wherein before the buffers are reconfigured to the particular size of the data it is determined whether memory space is needed for other purposes.
15. (Original) The computer program product of Claim 14 wherein the data being received is being read from or written to a storage device by an application program and if memory space is not needed, a signal is sent to the application program to increase the size of the data being read from or written to the storage device.
16. (Original) The computer program product of Claim 15 wherein the first and second thresholds are reconfigured based on system requirements.
17. (Original) The computer program product of Claim 16 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is smaller than the second threshold.
18. (Original) The computer program product of Claim 10 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is greater than the first threshold.
19. (Original) A system for adaptively reconfiguring a pool of buffers, the buffers having a current size, the system comprising:

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at least one storage system for storing code data; and

at least one processor for processing the code data to receive data of a particular size to be stored in one of the buffers, to count each time data of the particular size is received to be stored in one of the buffers, to determine whether the particular size of the data is greater than the current size of the buffers, and to reconfigure the current size of the buffers to the particular size of the data if the particular size of the data is greater than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is greater than a first threshold.

20. (Original) The system of Claim 19 wherein the code data is further processed to determine whether more memory space may be allocated before reconfiguring the buffers to the particular size of the data.
21. (Original) The system of Claim 20 wherein the data being received is being read from or written to a storage device by an application program and if more memory space may not be allocated, a signal is sent to the application program to reduce the size of the data being read from or written to the storage device.
22. (Original) The system of Claim 19 wherein the current size of the buffers is reconfigured to the particular size of the data if the particular size of the data is smaller than the current size of the buffers and if the number of times data of the particular size is stored in one of the buffers is smaller than a second threshold.

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23. (Original) The system of Claim 22 wherein before the buffers are reconfigured to the particular size of the data it is determined whether memory space is needed for other purposes.
24. (Original) The system of Claim 23 wherein the data being received is being read from or written to a storage device by an application program and if memory space is not needed, a signal is sent to the application program to increase the size of the data being read from or written to the storage device.
25. (Original) The system of Claim 24 wherein the first and second thresholds are reconfigured based on system requirements.
26. (Original) The system of Claim 25 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is smaller than the second threshold.
27. (Original) The system of Claim 19 wherein the buffers are reconfigured if the sum of all requests for all buffer sizes is greater than the first threshold.

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